Configure Logical Logs

End Result:

- 2 GB llogdbs01 dbspace
- 16 131064 KB logical logs created in llogdbs01 dbspace
- Remove 6 logical logs created during initialization
- 1. Temporarily set LTAPEDEV to /dev/null and bounce the engine

informix> vi \$INFORMIXDIR/etc/\$ONCONFIG

LTAPEDEV /dev/null

informix> onmode -k
informix> oninit -v

2. Create a new dbspace called lgspace1 to hold the new logical logs

informix> touch /home/informix/chunks/LLOGDBS11.01
informix>chown informix:informix /home/informix/chunks/LLOGDBS11.01
informix> chmod 660 /home/informix/chunks/LLOGDBS11.01
informix> onspaces -c -d Igspace1 -p /home/informix/chunks/LLOGDBS11.01 -o 0 -s 2097152

3. Make logical log 4 the current logical log and put the last checkpoint in logical log 4

Execute onmode -I multiple times until the output for logical log 4 in onstat -I shows 'C' in flags

informix> onmode -I # repeat as necessary
informix> onmode -c

4. Drop logical logs 1, 2 and 3

informix> onparams -d -l 1 -y
informix> onparams -d -l 2 -y
informix> onparams -d -l 3 -y

5. Create 3 new logical logs

informix> onparams -a -d lgspace1 -s 131064 informix> onparams -a -d lgspace1 -s 131064 informix> onparams -a -d lgspace1 -s 131064

6. Move the current logical log and last checkpoint out of logical logs 4, 5 and 6

informix> onmode -I
informix> onmode -I
informix> onmode -I

informix> onmode -c

7. Drop logical logs 4, 5 and 6

informix> onparams -d -l 4 -y informix> onparams -d -l 5 -y informix> onparams -d -l 6 -y

8. Create logical logs 4 through 16

informix> onparams -a -d Igspace1 -s 131064 # repeat 12 times

Configure System Backups to a Directory

End Result: System Backups written to /home/informix/backup/system

1. Create a directory to hold the System Backups

informix> mkdir /home/informix/backup informix> mkdir /home/informix/backup/system informix> chmod 770 /home/informix/backup/system

2. Change ONCONFIG TAPEDEV parameter to new backup directory

informix> vi \$INFORMIXDIR/etc/\$ONCONFIG

TAPEDEV /home/informix/backup/system

3. Optionally compress System Backups

informix> vi \$INFORMIXDIR/etc/\$ONCONFIG

BACKUP_FILTER /bin/gzip RESTORE_FILTER /bin/gunzip

4. Take a Level 0 System Backup

informix> ontape -s -L 0

Configure Automatic Logical Log Backup to a Directory

End Result: Automatic Logical Log backups written to /home/informix/backup/llog

1. Create a directory to hold the Logical Log backups

informix> mkdir /home/informix/backup/llog informix> chmod 770 /home/informix/backup/llog

2. Change ONCONFIG LTAPEDEV parameter to new backup directory

informix> vi \$INFORMIXDIR/etc/\$ONCONFIG

LTAPEDEV /home/informix/backup/llog

3. Optionally change ONCONFIG LTAPESIZE parameter if backup and restore filters are used

informix> vi \$INFORMIXDIR/etc/\$ONCONFIG

LTAPESIZE 2097152

4. Modify \$INFORMIXDIR/etc/alarmprogram.sh to enable automatic logical log backups with ontape

informix> vi \$INFORMIXDIR/etc/alarmprogram.sh

line 31, change flag from N to Y BACKUPLOGS=Y

line 62, change onbar -b -l to ontape -a -d BACKUP_CMD="ontape -a -d"

5. Test by forcing a logical log switch

informix> onmode -I

All used logical logs except for the current logical log should be backed up. Verify by checking for a flag of 'B' in **onstat** -I output, monitoring the Informix log via **onstat** -m and checking the logical log backup directory for logical log backups.

Restoring from System Backup and Applying the Logical Log backups

End Result: Informix engine restored to most recent point in time available

1. Verify the engine is offline

informix> onstat -

shared memory not initialized for INFORMIXSERVER 'blogsvr01'

2. Verify chunks required for restore exist, recreate using touch command if necessary

informix> Is -I /home/informix/chunks

total 4194312

- -rw-rw---- 1 informix informix 2147483648 2010-07-26 12:35 LLOGDBS01.01
- -rw-rw---- 1 informix informix 2147483648 2010-07-26 12:35 ROOTDBS.01

informix> touch /home/informix/chunks/DATADBS01.01 # assuming we need a chunk named DATADBS01.01 and it does not exist

informix> chmod 660 /home/informix/chunks/DATADBS01.01

informix> ls -l /home/informix/chunks

total 4194312

- -rw-rw---- 1 informix informix 0 2010-07-26 12:38 DATADBS01.01
- -rw-rw---- 1 informix informix 2147483648 2010-07-26 12:35 LLOGDBS01.01
- -rw-rw---- 1 informix informix 2147483648 2010-07-26 12:35 ROOTDBS.01
- 3. Execute a ontape restore from directory

informix> ontape -r -d

4. Bring the engine into Multi-User mode from Quiescent mode

informix> onmode -m